



Lopamudra Mitra, Ph.D.

Designation : Associate Professor

Department : Department of Electrical and Electronics Engineering
(JOINED THE INSTITUTE IN 2011)

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RESEARCH INTERESTS

- **Power Electronics Converters; Design and Implementation**
- **Application of Power Electronics Systems in Renewable Energy Systems**

Academic Qualifications

Ph. D. (Electrical and Electronics), KIIT University, India

M.Tech. (Electrical and Electronics) KIIT University, India

Specialisation: Power Electronics and Drives.

Teaching Experience/Industrial Experience/Research Experience

- ✓ Teaching Experience:11years

PUBLICATIONS

JOURNAL & CONFERENCES

+ **JOURNALS:**

- + **1. Lopamudra Mitra, Ullash Kumar Rout "Performance analysis of a new high gain dc-dc converter interfaced with solar photovoltaic module"Original**

Research Article, Renewable Energy Focus ([Elsevier](#)), Volumes 19–20, Pages 63-74, June 2017.([SCI](#))

- + 2. [Lopamudra Mitra](#), Ullash Kumar Rout "Single switched High Gain Converter" International Journal of Power Electronics and Drive Systems ([IJPEDS](#), ISSN: 2088-8694, a [Scopus](#) indexed Journal), Vol-8, No-1, March 2017.
- + 3. [Lopamudra Mitra](#), Ullash Kumar Rout "Solar Powered Synchronous buck converter for low voltage application" International Journal of Electrical Engineering and Technology, Volume-5, pp74-88, May 2014.([Scopus](#))
- + **CONFERENCES:**
- + [Lopamudra Mitra](#), Ullash Kumar Rout "Single Switched Inductor Capacitor Coupled Transformerless High Gain Converter for PV Application" [IEEE International Conference on Power System \(ICPS-2016\)](#), IIT Delhi. INSPEC Accession Number: 16358594, DOI: 10.1109/ICPES.2016.7584017.
- + [Lopamudra Mitra](#), Ullash Kumar Rout "Double Input DC-DC Converter with PV and DC Source for Standalone Applications" [IEEE International Conference on Microelectronics, Communication and Computing \(MicroCom-2016\)](#),NIT,Durgapur. DOI: 10.1109/MicroCom.2016.7522553.
- + [Lopamudra Mitra](#), N. Swain "Closed Loop Control of Solar Powered Boost Converter with PID Controller" [IEEE International Conference on Power Electronics, Drives and Energy Systems \(PEDES-2014\)](#), IIT, Mumbai. INSPEC Accession Number: 14932195, DOI: 10.1109/PEDES.2014.7041973.
- + [Lopamudra Mitra](#), Sanjeev Kumar Das "Smart Wheel Chair For Differently-abled People Using DTMF Control" [IEEE International Conference on Recent Innovations in Electrical, Electronics & Communication Engineering - \(ICRIEECE-2018\)](#)
- + [Lopamudra Mitra](#), "Model Predictive Control of a Double Input DC-DC Converter with Battery and PV Source" [IEEE International Conference on Recent Innovations in Electrical, Electronics & Communication Engineering - \(ICRIEECE-2018\)](#)
- + [Lopamudra Mitra](#), Ullash Kumar Rout "Comparative study of multi stage boost converter for high voltage and high power applications." [IEEE Conference on Power Electronics Systems and Application, NIT, Rourkela, 2013.](#)
- + [Lopamudra Mitra](#), Ullash Kumar Rout "High voltage gain DC-DC converter for PV Application using BHB cell" National seminar on recent trends in Micro grid Technology, 2017,KIIT, Bhubaneswar.

ANY OTHER

Book Chapter
Conferences attended